The Next Generation of Digital Refractometers

"Pocket" Refractometers PA Series

E ATAGO



- Extremely water resistant (IP65)
- · Can be washed under running water
- Will float if accidentally dropped in water



- Ergonomically designed for one-handed operation
- The innovative design makes it easy to pour out and remove a sample, but difficult to spill the sample.



• Automatic Temperature Compensation (ATC)



• Temperature display



Measurement temperature up to 100°C



- Revolutionary new External Light interference (ELI)
- When intense light penetrates the prism of a digital refractometer, the light waves interfere with the sensor, which may lead to inaccurate measurements. To ensure accurate measurement results, the PAL is programmed with the ELI function which displays the [nnn] warning message when intense direct light is detected. Forming a habit of shading the sample stage with your hand and re-pressing the START key (when the warning message from the ELI function is displayed) will ensure accurate measurement results each time.





Low to medium **High concentration** PAL-1

Part Name

RE-110030 Sucrose Solutions (for Brix confirmation) 30% (±0.03%)

RE-110040 Sucrose Solutions (for Brix confirmation) 40% (±0.04%)

RE-110050 Sucrose Solutions (for Brix confirmation)50% (±0.05%)

RE-110060 Sucrose Solutions (for Brix confirmation)60% (±0.05%)

RE-39412 Small Volume Sample Adapter for PAL

ucrose Solutions (for Brix confirmation) 10% ($\pm 0.03\%$)

Cat.No.3810

Optional Part No.

RE-39409 PAL-CASE

RE-39410 PAL-STRAP

▲PAL Silicone Cover

RE-39446 MAGIC¹

RE-110010

PAL-2 Cat.No.3820 Wide range PAL-3

Cat.No.3830

Sucrose Solutions

■ MAGICTM

Powered by Mode S PAL-S S

PAL-22S Cat.No.4422

PAL-39S Cat.No.4439

Cat.No.3860 Standard accessory

MAGIC™

Certification



Small Volume Sample Adapter for PAL

imize evaporation.



▲PAL-STRAP

Eustom concentrations are available ipon request. Accuracy and prices In accordance with ISO Contact ATAGO for more details. Quality Management Warranty period for these solutions Systems, ATAGO can calibrate and certify your Digital Hand-Held "Pocket" Refractometer his adaptor is used for a hot sample o cool it down quickly or to The following documents will be issued (for a service 0. 0 % 20. 1st 2nd Calibration Certificate Traceability System Diagram Traceability Certificate

PAL commitment

A new ergonomic design for comfort and ease of use!

In pursuit of an "easy to use", "easy to operate" and ergonomic architecture of new instruments, ATAGO has achieved a "palmfitting" masterpiece as well as unit that is high in hygienic properties. By reducing the number of unnecessary assembly parts, we have reduced the risks of a germ reproductive environment. Through our efforts to produce a hygienic instrument to be used in any industry, these units are designed to be completely washable. The new PAL series has been approved by the HACCP, and are equipped with the new ELI feature, which ensures accurate measurements - even outdoors Requests from our customers worldwide are reflected in the development of the new PAL

Size

Sample Stage

The SUS sample stage allows for the sample temperature to conform quickly and evenly to the prism temperature for accurate measurements

START Key

Conveniently located for single hand operation.





Made of highly durable optical glass to prevent scratching.

Liquid Crystal Display (LCD)

Digital measurement values are large and easy to read. Displays battery indicator and temperature.

ZERO Key

For Zero Setting, place water on the prism and press.

Strap Holder

Suitable for wrist straps or lanyards.



Apply 2-3 drops on the prism



Press the START key.



Measurement value and prism 3 Measurement value and prism temperature are displayed in 3 seconds!

Application examples











Specifications

- p - c - i i c -						
	PAL-1 Cat.No.3810	PAL-2 Cat.No.3820	PAL-3 Cat.No.3830	PAL-S Cat.No.3860	PAL-22S Cat.No.4422	PAL-39S Cat.No.4439
Measurement range	Brix 0.0 to 53.0%	Brix 45.0 to 93.0%	Brix 0.0 to 93.0%	Brix 0.0 to 93.0%	Honey moisture 12.0 to 30.0 %	Hydrogen peroxid 0.0 to 50.0%
Measurement Accuracy	Brix ±0.2%		Brix ±0.1%	Brix ±0.2%	Honey moisture ±0.2 %	Hydrogen peroxio ±0.6%
Resolution	Brix 0.1%			Honey moisture 0.1 %	Hydrogen peroxid 0.2%	
Measurement temperature	10 to 100°C (ATC) (Hot samples over 100°C can be measured under specified conditions. Please contact ATAGO for further details.)					
Ambient temperature	10 to 40°C					
Power supply	2×AAA Batteries					
International protection class	IP65 Water resistant					
Dimensions and weight	5.5×3.1×10.9cm, 100g					

